

1. Find the LCM for each group of numbers:

a. 5 and 7

b. 21 and 10

2. Find the LCM for each group of numbers

a. 40 and 60

b. 8, 12, and 42

Perform the indicated operation. Reduce to lowest terms.

3. $-\frac{3}{4} \bullet -\frac{1}{8}$

4. $-10\left(\frac{6}{8}\right)$

5. $2\frac{5}{7} \div 2\frac{1}{9}$

6. $\frac{5}{6} \div (-30)$

Perform the indicated operation. Reduce to lowest terms.

7. $\frac{3}{4} + \frac{1}{16}$

8. $\frac{-1}{14} + \left(\frac{-3}{4}\right)$

9. $\frac{6}{7} - \frac{2}{11}$

10. $45 - 12\frac{3}{17}$

11. $9\frac{4}{5} + 6\frac{1}{8}$

12. $16\frac{1}{8} - 3\frac{5}{6}$

13. Simplify each of the following complex fractions. Reduce to lowest terms.

a. $\frac{\frac{x^2}{5}}{\frac{x}{15}}$

b. $\frac{\frac{x}{3}}{\frac{x}{9}}$

c. $\frac{\frac{4}{25} - \frac{3}{50}}{\frac{3}{10} + \frac{5}{20}}$

14. Simplify each of the following as much as possible. Reduce to lowest terms.

a. $\frac{3}{5} \cdot \frac{1}{2} + \frac{1}{5} \div \frac{2}{3}$

b. $\frac{1}{2} + \frac{1}{4} \cdot \frac{1}{6}$

15. Sarah purchased $\frac{3}{4}$ pound of peanut brittle candy and $2\frac{7}{8}$ pound of peanut patty candy. How many total pounds of the candy did Sarah buy?

16. The Tran family is receiving a \$2400 tax refund. They decide to spend $\frac{1}{4}$ of the money on a vacation, and use $\frac{1}{8}$ of the money to pay off bills. They will put the remainder of the tax refund money into a savings account. How much money will they put in the savings account?

17. A cake recipe calls for $3\frac{1}{3}$ cups of flour to prepare a serving for 12 people. How much flour is needed to prepare a serving for 48 people?

18. Jaci bought $3\frac{1}{7}$ pounds of candy. If she brings $\frac{2}{3}$ pounds of the candy to work, how many pounds of candy will she have left?

Answers to Math 302 Practice Test 3

1. a. 35 b. 210

2. a. 120 b. 168

3. $\frac{3}{32}$

4. $-\frac{15}{2}$ or $-7\frac{1}{2}$

5. $\frac{9}{7}$ or $1\frac{2}{7}$

6. $-\frac{1}{36}$

7. $\frac{13}{16}$

8. $-\frac{23}{28}$

9. $\frac{52}{77}$

10. $32\frac{14}{17}$

11. $15\frac{37}{40}$

12. $12\frac{7}{24}$

13. a. $3x$ b. 3 c. $\frac{2}{11}$

14. a. $\frac{3}{5}$ b. $\frac{13}{24}$

15. $3\frac{5}{8}$ pounds

16. \$1500

17. $13\frac{1}{3}$ cups

18. $2\frac{10}{21}$ pounds